

Title (en)

Fuel cell separator and process for producing same

Title (de)

Brennstoffzelleseparator und Herstellungsverfahren

Title (fr)

Séparateur pour cellule à combustible et sa méthode de fabrication

Publication

EP 0969540 A3 20020424 (EN)

Application

EP 99110769 A 19990604

Priority

JP 15779998 A 19980605

Abstract (en)

[origin: EP0969540A2] The present invention provides a separator for fuel cell, having a film on the surface, wherein the film has a water-holdability of 0.3 to 5.0 g per g of the film, or the film has a pore volume of 0.3 to 5.2 cc per g of the film; and, a process for producing a fuel cell separator by applying, onto a base material for fuel cell separator, a conductive coating containing at least a conductive powder and a binder, to form, on the base material, a film made of the conductive coating, wherein the proportions of the conductive powder and the binder are 100 parts by weight of the conductive powder and 1 to 1,000 parts by weight of the binder, or, a process for producing a fuel cell separator by applying, onto a base material for fuel cell separator, a conductive coating containing at least a conductive powder, a binder and a perishable additive, to form, on the base material, a film made of the conductive coating and then allowing the perishable additive to perish, wherein the proportions of the conductive powder, the binder and the perishable additive are 100 parts by weight of the conductive powder, 1 to 1,000 parts by weight of the binder and 0.1 to 100 parts by weight of the perishable additive. The fuel cell separator is superior in hydrophilicity and water-holding property. <IMAGE>

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H01M 8/02; **H01M 2/16**

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CPC (source: EP)

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Citation (search report)

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- [E] EP 0928036 A1 19990707 - DE NORA SPA [IT]
- [X] PATENT ABSTRACTS OF JAPAN vol. 013, no. 128 (E - 735) 29 March 1989 (1989-03-29)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 011, no. 341 (E - 554) 7 November 1987 (1987-11-07)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 012, no. 246 (E - 632) 12 July 1988 (1988-07-12)
- [Y] DATABASE WPI Section Ch Week 197503, Derwent World Patents Index; Class A85, AN 1975-04791W, XP002180591
- [X] PATENT ABSTRACTS OF JAPAN vol. 008, no. 135 (E - 252) 22 June 1984 (1984-06-22)
- [X] PATENT ABSTRACTS OF JAPAN vol. 017, no. 001 (C - 1014) 5 January 1993 (1993-01-05)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 04 31 March 1998 (1998-03-31)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 012, no. 348 (E - 659) 19 September 1988 (1988-09-19)
- [Y] DATABASE WPI Section Ch Week 198551, Derwent World Patents Index; Class A89, AN 1985-319577, XP002180593
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10 31 August 1998 (1998-08-31)
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